

CLAIMS:

1. A transmitter for use in a tire condition monitoring apparatus in which the transmitter is mounted in a wheel of a vehicle by an automatic mounting machine, wherein the automatic mounting machine has a jig, the transmitter comprising:

a measuring-transmitting portion, which measures data representing the conditions of a tire mounted on the wheel, and transmits data indicating the condition of the tire;

a valve stem, which is inserted into the wheel for allowing air to flow into the tire; and

a casing for accommodating the measuring-transmitting portion, the casing having an engagement portion, wherein the jig of the automatic mounting machine engages with the engagement portion during mounting.

2. The transmitter according to claim 1, wherein the engagement portion is located on an extension of a center axis line of the valve stem.

3. The transmitter according to claim 2, wherein the casing has an air hole that allows air to flow into the tire through the valve stem.

4. The transmitter according to claim 1, wherein, when the jig engages with the engagement portion, the casing is prevented from being rotated.

5. The transmitter according to claim 1, wherein the engagement portion comprises a recessed portion formed in the casing.

6. The transmitter according to claim 1, wherein the engagement portion comprises a projection formed on the casing.

5 7. A transmitter for use in a tire condition monitoring apparatus in which the transmitter is mounted in a wheel of a vehicle by an automatic mounting machine, wherein the automatic mounting machine has a jig, the transmitter comprising:

10 a measuring-transmitting portion, which measures data representing the conditions of a tire mounted on the wheel, and transmits data indicating condition of the tire;

a valve stem, which is inserted into the wheel and allows air to flow into the tire; and

15 a casing for accommodating the measuring transmitting portion, wherein the casing has a recessed portion, wherein the jig of the automatic mounting machine engages with the recessed portion during mounting, and wherein the recessed portion is located on an extension of a center axis line of
20 the valve stem.

8. The transmitter according to claim 7, wherein the recessed portion has an air hole that allows air to flow into the tire through the valve stem.

25 9. The transmitter according to claim 7, wherein, when the jig engages with the engagement portion, the casing is prevented from being rotated.